

LCD Backlights

Abstract Doc

SM Library & Information Services
ETA - Enhanced Technology Awareness

Category: Light Guide\Slab, Light Guide\Wedge, Light Guide\Structure on Top Surface, Enhance. Film\Prism Up, Enhance. Film\Prism Down, Advantage\Brightness, Advantage\Uniformity, Advantage\Viewing Angle

Category Definition: 

Link to Atlas Electronic Library Translation Services

Title:

Back light arrangement for LCD device - in which condensing sheet is provided between LCD element and transparent surface of light guide board that is arranged perpendicular to longitudinal direction of light source

Patent Assignee:

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Abstract:

Abstract (Basic): JP 08304607A

Priority: JP 0110487 (05/09/95)

The arrangement comprises a linear light source (2). A light guide board with an upper transparent surface (4) and a lower reflective surface (3) is arranged perpendicular to the longitudinal direction of the light source. The side of the light guide board facing the light source is made planar in shape.

Multiple prism like projection parts (5) are formed in the transparent surface of the light guide board. Light rays get refracted when they pass through the projection parts. A condensing sheet (10) with prism like projection formed in its lower surface is arranged between the transparent surface of light guide board and an LCD element (9). The upper surface of the condensing sheet that faces the LCD element is made in planar form.

ADVANTAGE - Provides uniform brightness. Improves lighting efficiency. Prevents reduction in contrast. Enables to change radiation angle of light rays from condensing sheet.

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Clipped Images:

Engineering Drawing:



